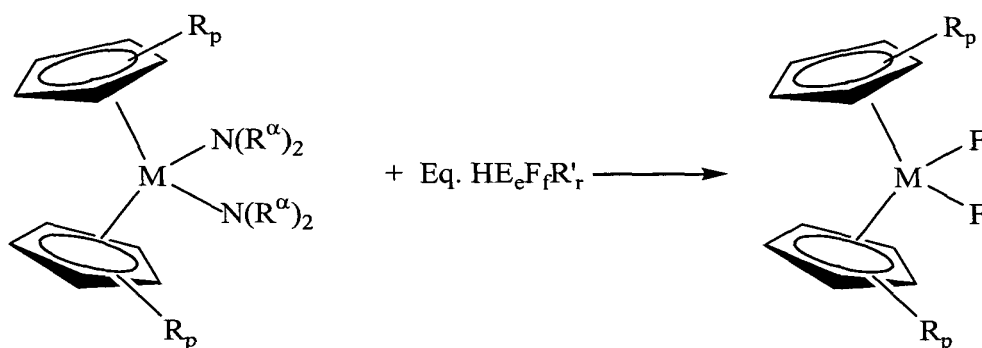


PROCESSES OF PRODUCING FLUORIDED CATALYSTS FROM NITROGENOUS METALLOCENES

ABSTRACT

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Processes of producing fluorided catalyst compounds and process of producing polyolefins using these catalyst compounds are disclosed. An embodiment of the process includes contacting a nitrogenous metallocene compound with a fluoriding agent, which preferably includes a fluorided anhydrous acid, for a time sufficient to form a fluorided metallocene catalyst compound. An example of the process to produce a fluorided metallocene is:



15 wherein N is nitrogen, R and R^α are groups selected from hydrogen, hydrocarbons, heteroatom-containing hydrocarbons and halides, p can be 0 (if no substituent groups are present on the Cp rings) or an integer from 1 to 5; adjacent R groups can form another ring system (*e.g.*, to form a tetrahydroindenyl or indenyl group); and the other groups are defined as herein; wherein "Eq." are the equivalents of fluoriding agent combined with the
20 nitrogenous metallocene compound ranging from 1 to 10 in one embodiment.